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mutational patterns that have been observed and reported for HIV-1 and that are correlated with drug resistance are very diverse: some antiretroviral agents require only one single genetic change, while others require multiple mutations for resistance to appear. A summary of mutations in the HIV genome correlated with drug resistance has been compiled. See Schinazi, R.F., Larder, B.A. & Meliors, J.W. 1997. Int. Antiviral News. 5, 129-142 (1997). Additionally, an electronic listing with mutations has also become available on the internet at sites such as hiv-web.lanl.gov or

www.viralresistance.com. --

From-F,H,F,G & D

On Page 24, please replace Table 2b with the following table:

Table 2b: Novel Protease Mutations and the Correlated Drug Resistance

A2

Protease Mutation	Resistant to:
33F + 90M	PI
88T	PI

## IN THE CLAIMS

Please amend claim 7 as follows:

- 7. (Amended) A method of evaluating the effectiveness of an antiviral therapy of an HIV-infected patient comprising:
- (i) collecting a sample from an HIV-infected patient;
- (ii) determining whether the sample comprises at least one nucleic acid chosen from:
- (a) a first nucleic acid encoding HIV reverse transcriptase comprising at least one mutation chosen from:
- 1) at least one mutation chosen from 88E, 101H, 101N, 101P, 101Q, 101T, 103H, 103S, 179I, 179E, 181V, 190E, 190S, and 190T,

From-F,H,F,G &

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- 2) mutations 103 R and 179D, or
- 3) combinations of 1) and 2),

in which the presence of said at least one mutation correlates with resistance to at least one Non-Nucleoside Reverse Transcriptase Inhibitor (NNRTI);

(b) a second nucleic acid encoding HIV reverse transcriptase comprising at least one mutation chosen from 69S-[S-S], 184G, 184L, 215 V, 44D, 44A, and 118I,

in which the presence of said at least one mutation correlates with resistance to at least one Nucleoside Reverse Transcriptase Inhibitor (NRTI); and

- (c) a third nucleic acid encoding HIV protease comprising at least one mutation chosen from:
  - 1) 88T,
  - 2) mutations 33F and 90M, or
  - 3) combinations of 1) and 2),

in which the presence of said at least one mutation correlates with resistance to at least one Protease Inhibitor (PI); and

(iii) using the presence of said at least one nucleic acid to evaluate the effectiveness of said antiviral therapy.

## <u>REMARKS</u>

Claims 1-30 are pending in this application. Claim 7 has been amended to clarify claim language and to replace abbreviations. The scope of claim 7 has not been narrowed by these amendments.